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PTO/SB/01 (12-97)

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	283014-00008-1
	First Named Inventor	Andrey Kozyrev
	COMPLETE IF KNOWN	
	Application Number	09 / 644,019
	Filing Date	August 22, 2000
	Group Art Unit	
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VOLTAGE TUNABLE COPLANAR PHASE SHIFTERS

the specification of which (Title of the Invention)

☐ is attached hereto
OR
☒ was filed on (MM/DD/YYYY) **August 22, 2000** as United States Application Number or PCT International Application Number **09/644,019** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/150,618	August 24, 1999	

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☐ Customer Number 003705 → Place Customer Number Bar Code Label here

☐ OR Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number 003705 OR ☐ Correspondence address below

Name	Robert P. Lenart					
Address	Eckert Seamans Cherin & Mellott, LLC					
Address	600 Grant Street, 44th Floor					
City	Pittsburgh	State	PA	ZIP	15219	
Country	USA	Telephone	(412) 566-1252		Fax	(412) 566-6099

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))			Family Name or Surname				
Andrey			Kozyrev				
Inventor's Signature	<u>Andrey Kozyrev</u>				Date	3/15/00	
Residence: City	St. Petersburg	State		Country	RUSSIA	Citizenship	RUSSIA
Post Office Address	Vyborgskaya naberezhnaya 69/3, Apt. 101						
Post Office Address							
City	St. Petersburg	State		ZIP	197342	Country	RUSSIA

☐ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

Please type a plus sign (+) inside this box → +

PTO/SB/02A (3-97)
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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>2</u> of <u>2</u>
--------------------	---

Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Louise				Sengupta			
Inventor's Signature	<i>Louise Sengupta</i>			Date	9/7/00		
Residence: City	Warwick	State	MD	Country	USA		Citizenship
Post Office Address							
12 New Haven Boulevard							
City	Warwick	State	MD	ZIP	21912		Country
USA							
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Youngfei				Zhu			
Inventor's Signature	<i>Youngfei Zhu</i>			Date	9/7/00		
Residence: City	Columbia	State	MD	Country	USA		Citizenship
Post Office Address							
5275 Rivendell Lane, Suite 6							
City	Columbia	State	MD	ZIP	21044		Country
USA							
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Inventor's Signature				Date			
Residence: City		State		Country			Citizenship
Post Office Address							
Post Office Address							
City		State		ZIP			Country

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Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 07, 2001

PTAS
ECKERT SEAMANS CHERIN & MELLOTT, LLC
ROBERT P. LENART
600 GRANT STREET
44TH FLOOR
PITTSBURGH, PA 15219

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JUL 13 2001

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IP DEPT.

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/16/2001

REEL/FRAME: 011718/0624
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
KOZYREV, ANDREY

DOC DATE: 02/27/2001

ASSIGNOR:
SENGUPTA, LOUISE

DOC DATE: 02/07/2001

ASSIGNOR:
ZHU, YOUNGFEI

DOC DATE: 02/07/2001

ASSIGNEE:
PARATEK MICROWAVE, INC.
6935 OAKLAND MILLS ROAD, SUITE N
COLUMBIA, MARYLAND 21045

SERIAL NUMBER: 09644019
PATENT NUMBER:

FILING DATE: 08/22/2000
ISSUE DATE:

011718/0624 PAGE 2

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027

04-27-2001

U.S. Department of Commerce
Patent and Trademark Office
PATENT



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APR 16 2001

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☐ License ☐ Change of Name
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U.S. Government
(For Use ONLY by U.S. Government Agencies)
☐ Departmental File ☐ Secret File

Conveying Party(ies)

☒ Mark if additional names of conveying parties attached

Name (line 1) ANDREY KOZYREV

Execution Date
Month Day Year
2/27/2001

Name (line 2)

Second Party

Name (line 1) LOUISE SENGUPTA

Execution Date
Month Day Year
2/7/2001

Name (line 2)

Receiving Party

Name (line 1) PARATEK MICROWAVE, INC.

☐ Mark if additional names of receiving parties attached

Name (line 2)

Address (line 1) 6935 OAKLAND MILLS ROAD, SUITE N

Address (line 2)

Address (line 3) COLUMBIA

MARYLAND

21045

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

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Area Code and Telephone Number

Name

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Address (line 3)

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

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Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

<input type="text" value="09/644,019"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number
only if a U.S. Application Number
has not been assigned.

PCT PCT PCT
PCT PCT PCT

Number of Properties

Enter the total number of properties involved.

#

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment:
Deposit Account

Enclosed ☒ Deposit Account ☐

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

#

Authorization to charge additional fees:

Yes ☒ No ☐

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Robert P. Lenart

Robert P. Lenart

4/12/2001

Name of Person Signing

Signature

Date

Execution Date
Month Day Year

2/7/2001

Execution Date
Month Day Year

Execution Date
Month Day Year

Name (line 2)

Name (line 1)

Name (line 2)

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Address (line 2)

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Name (line 1)

Name (line 2)

Address (line 1)**Address (line 2)****Address (line 3)**

State/Country

State/Country

State/Country	Mark if additional numbers attached	Item for the S

Address (line 3) City ☐ Mark if additional numbers attached
Application Number(s) or Patent Number(s)
 Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).
 Application Number(s) Patent Number(s)

Patent Application Number(s)

Patent Number(s)

[illegible][illegible]

ASSIGNMENT

WHEREAS, WE, **ANDREY KOZYREV**, residing at vyborgskaya naberezhnaya 69/3, Apt. 101, St. Petersburg, 197342, a citizen of Russia; **LOUISE SENGUPTA**, residing at 12 New Haven Boulevard, Warwick, Maryland 21912, a citizen of the United States of America; and **YOUNGFEI ZHU**, residing at 5275 Rivendell Lane, Suite 6, Columbia, Maryland 21044, a citizen of China; respectively, have invented certain improvements in: **VOLTAGE TUNABLE COPLANAR PHASE SHIFTERS** which is described in United States Patent Application Serial No. 09/644,019 which was filed on August 22, 2000; and

WHEREAS, **PARATEK MICROWAVE, INC.**, a corporation organized and existing under the laws of the State of Maryland, having its principal place of business at 6935 Oakland Mills Road, Suite N, Columbia, MD 21045, is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of One (\$1.00) Dollar and other good and valuable consideration paid to us by said assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof including all priority rights under the International Convention associated therewith for each country and the Union, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

283014-00008-1

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

Executed on this 7th day of February, 2001

ANDREY KOZYREV

Andre Kozyrev

LOUISE SENGUPTA

Louise Sengupta

YOUNGFEI ZHU

State of Maryland :
County of Howard : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **ANDREY KOZYREV, LOUISE SENGUPTA and YOUNGFEI ZHU** who acknowledged that they are the persons who executed the foregoing assignment and acknowledged it to be their free and voluntary act and deed.

Witness my hand and notarial seal this 7th day of February, 2001.

Deborah M. Cowling
Notary Public

(NOTARIAL SEAL)

283014-00008-1

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

Executed on this 27th day of February, 2001

X [Signature]
ANDREY KOZYREV

[Signature]
LOUISE SENGUPTA

[Signature]
YOUNGFEI ZHU

State of Maryland :
County of Howard : ss.

Before me, a Notary Public in and for the said County and State, personally appeared **ANDREY KOZYREV, LOUISE SENGUPTA** and **YOUNGFEI ZHU** who acknowledged that they are the persons who executed the foregoing assignment and acknowledged it to be their free and voluntary act and deed.

Witness my hand and notarial seal this 27th day of February, 2001.

[Signature]
Notary Public

(NOTARIAL SEAL)

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REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	09/644,019
Filing Date	August 22, 2000
First Named Inventor	Andrey Kozyrev et al.
Group Art Unit	2817
Examiner Name	Benny T. Lee
Attorney Docket Number	283014-00008-1

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney or Authorization of Agent is submitted herewith.

AND

☒ Please change the correspondence address for the above-identified application to:

☐ Customer Number 27512 →

OR

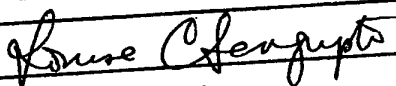
<input checked="" type="checkbox"/> Firm or Individual Name	William J. Tucker				
Address	8650 Southwestern Blvd. #2825				
Address					
City	Dallas	State	TX	ZIP	75206
Country	USA	Fax	(214) 368-4978		
Telephone	(214) 368-4978				

I am the:

☐ Applicant.

☒ Assignee of record of the entire interest
Certificate under 37 CFR 3.73(b) is enclosed

SIGNATURE of Applicant or Assignee of Record

Name	Louise C. Sengupta, President Paratek Microwave, Inc.
Signature	
Date	7/17/02

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	09/644,019
Filing Date	August 22, 2000
First Named Inventor	Andrey Kozyrev et al.
Group Art Unit	2817
Examiner Name	Benny T. Lee
Attorney Docket Number	283014-00008-1

I hereby appoint:

☒ Practitioners at Customer Number

27512



27512

☒ Practitioner(s) named below:

Name	Registration Number
James S. Flann	38,450
Donald D. Mondal	29,957
Michael N. Haynes	40,014

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☒ Firm or Individual Name William J. Tucker

Address 8650 Southwestern Blvd. #2825

Address

City Dallas State TX Zip 75206

Country USA

Telephone (214) 368-4978 Fax (214) 368-4978

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name Louise C. Sengupta, President, Paratek Microwave, Inc.

Signature

Date

7/17/02

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ Total of _____ forms are submitted.

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CERTIFICATE UNDER 37 CFR 3.73(b)

Applicant: Andrey Kozyrev et al.

Application No.: 09/644,019 Filed: August 22, 2000

VOLTAGE TUNABLE COPLANAR PHASE SHIFTERS

Entitled: _____

Paratek Microwave, Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 12695, Frame 0261, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

7/17/02
Date

Louise C. Sengupta
Signature

Louise C. Sengupta

Typed or printed name

President, Paratek Microwave, Inc.

Title